

#### **2021 Legislative Session**

#### **Division of Water Rights**

#### **NRAEQ Appropriations Subcommittee**

Teresa Wilhelmsen, P.E.

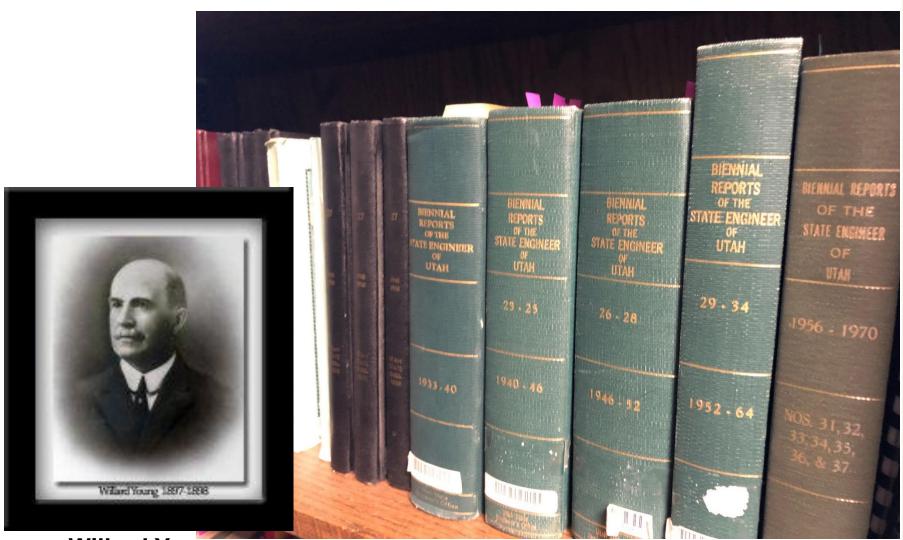
State Engineer / Division Director

January 27, 2021

#### State Engineer History

- Created 1897
- "Practical" Engineer
- Governor Appointment
- Senate Confirmation
- 4 Year Term
- No Board
- No Superior Agency Review





Willard Young 1897-1898

## Division of Water Rights Mission:

UTAH EMERGENCY RELIEF ADMINISTRATION

DROUGHT RELIEF

UTAH LAKE DRAINAGE AREA IRRIGATION SURVEYS

> O. W. ISRAELSEN WAYNE D. CRIDDLE SLDON M. STOCK

DECREE

**ADJUDICATING** 

The Sevier River System

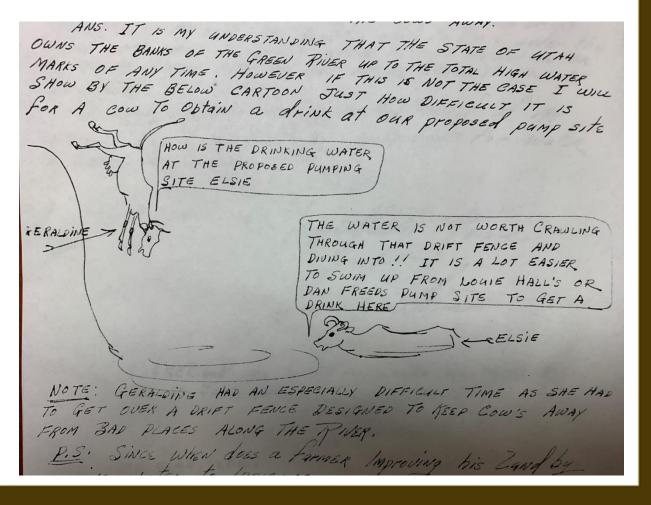
IRRIGATION IN UTAH

CHARLES HILLMAN BROUGH

HON IF ROY !! COV

# Promote order, certainty, and safety in the beneficial use of Utah's water





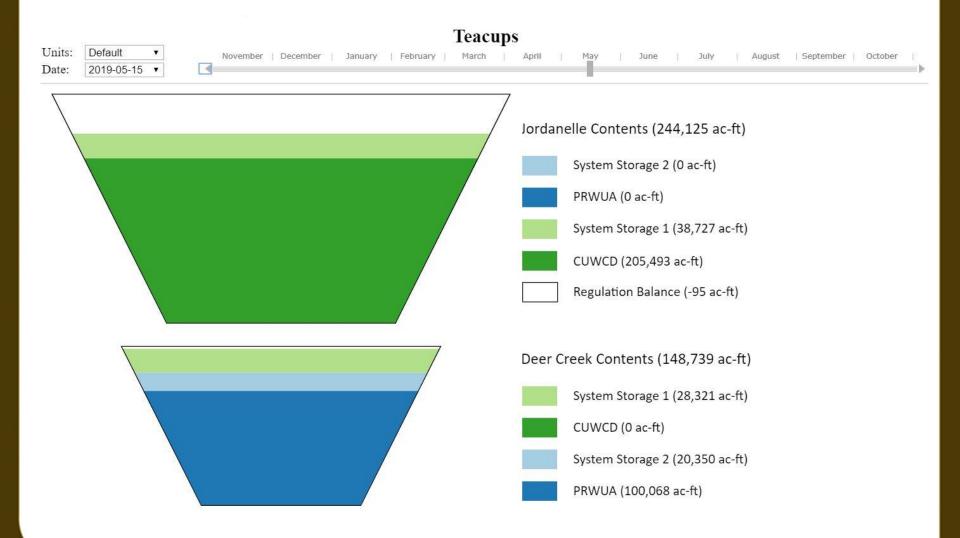
#### Current State Engineer Responsibilities

- Maintain Records and Provide Public Access
- Act on Water Right Applications
- Participate in General Adjudications
- Supervise Diversions by Priority
- Cooperative Studies
- Regulate Safety of Dams
- License Well Drillers
- Regulation of Geothermal Activities
- Approve Stream Alteration Permits
- Enforce Water Right Law



#### Utah Division of Water Rights





#### Utah Division of Water Rights

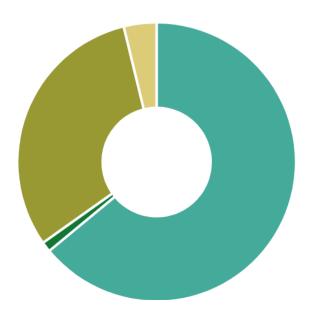


#### Above Midway Schematic/NF

Units: Default ▼ Date: 2019-05-15 ▼	ber   January   February   1	March   April	May	June	July   August   September   Oc	tober			
	DAILY	YTD							
Washington Lake Contents	21.2 cfs	686 af							
Trial Lake Contents	30.8 cfs	1,037 af							
Lost Lake Contents	13.1 cfs	423 af							
Duchesne Tunnel (Net)		9,516 af							
Shingle Creek (Net)		1,578 af							
Sunrise Diversion ◀	0.0 cfs	o af							
Washington/South Kamas Diversion ◀	o.o cfs	o af							
Cutler-Larsen Diversion	o.o cfs	o af							
WPC at Francis - Inflows (Net)		3,329 af							
Ontario Drain Tunnel (Net)	575 SEC. 1911	,828 af							
Jordanelle Reservoir Contents	the contract of the contract o	,,020 af ),706 af							
Evaporation		1,994 af							
4% Conveyance Loss	- A	418 af							
	0.0 cfs 2.8 cfs	416 al 167 af							
Wetlands Diversion ◀	2.8 CIS	107 at							
Timpanogos (Wasatch) Diversion					Summary				
Wasatch/Extension Diversion ◀	Units: Default ▼	Novemb	er   December	January   Fe	bruary   March   April   May	June	July   Augu	ust   September	October
North Field Diversion ◀	Date: 2019-05-15 ▼	4							
Midway Diversion ◀									
Miscellaneous Diversion <	NATURAL FLOW	DAY	MONTH	YTD	LOSSES	DAY	MONTH	YTD	
Flow Past Midway	Above Midway Bridge Murdock Dam to Midway	856.2 cfs	17,030 af	60,782 af	Jordanelle Evaporation	17.2 cfs	496 af	1,994 af	
	Below Murdock Dam	491.9 cfs -16.7 cfs	11,976 af -651 af	83,215 af -1,069 af	Deer Creek Evaporation 4% Conveyance Loss	19.7 cfs 0.0 cfs	588 af 0 af	2,066 af 418 af	
Natural Flow =	Conserved Released	8.3 cfs	248 af	3,695 af	Conserved Released	8.3 cfs	248 af	3,695 af	
	Total	1,339.8 cfs	28,603 af	146,623 af	Total	45.3 cfs	1,332 af	8,173 af	
	NET IMPORTS	DAY	MONTH	YTD	USES	DAY	MONTH	YTD	
	WPC (PRWUA)	572.6 cfs	12,377 af	26,173 af	Diversions Above Midway	92.9 cfs	2,056 af	2,140 af	
	WPC (Echo Shares)	0.0 cfs	o af	2,157 af	Diversions Above Murdock	418.6 cfs	6,943 af	40,249 af	
	WPC (A9580)	0.0 cfs	O af	o af	Diversions Above Utah Lake	o.o cfs	o af	o af	
	Total WPC	572.6 cfs	12,377 af	28,329 af	Total Diversions	511.6 cfs	8,999 af	42,389 af	
	Duchesne Tunnel	309.3 cfs	3,950 af	9,516 af	Outflow to Utah Lake	388.7 cfs	11,439 af	42,948 af	
	ODT	9.9 cfs	294 af	3,828 af					
	Shingle Creek	48.0 cfs 939.8 cfs	1,066 af 17,688 af	1,578 af					
	Total	939.8 CIS	17,088 aI	43,251 af					
	TOTAL INFLOW	2,279.6 cfs	46,291 af	189,874 af	TOTAL OUTFLOW	945.5 cfs	21,771 af	93,510 af	

#### Current Budget Breakdown

FY21-22 Sources - \$13.98M



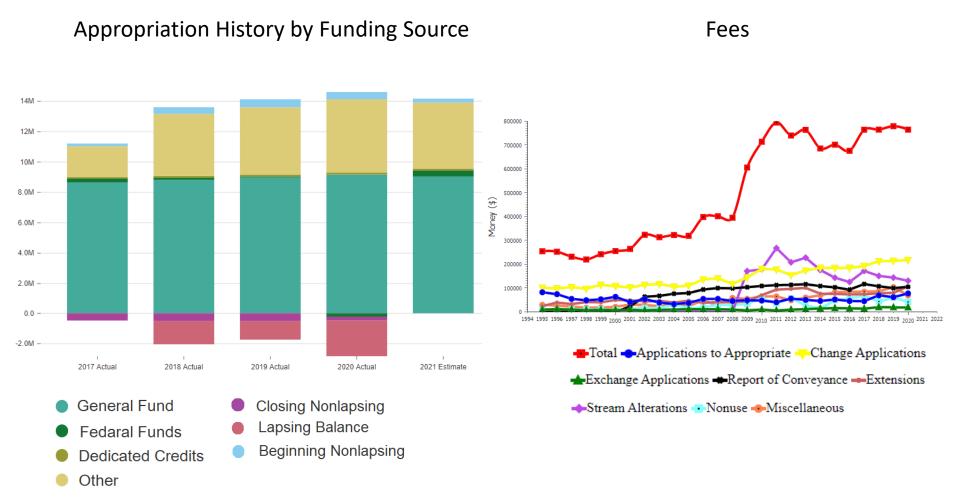
- General Fund (\$9,008,000)
- Federal Funds (\$126,400)
- Dedicated Credits (\$4,343,400)
- Other (\$500,000)

**Programs** 



- Adjudication (\$3,499,100)
- Administration (\$1,130,800)
- Applications and Records (\$4,717,200)
- Canal Safety (\$400)
- Dam Safety (\$1,134,400)
- Field Services (\$1,361,400)
- Technical Services (\$2,134,500)

### **Funding History**



### How Funding Is Being Used

#### **Appropriation History by Program**



## FTEs/Special Revenue Account

**Appropriated Programs** 

Expendable Special Revenue Account

87 FTEs



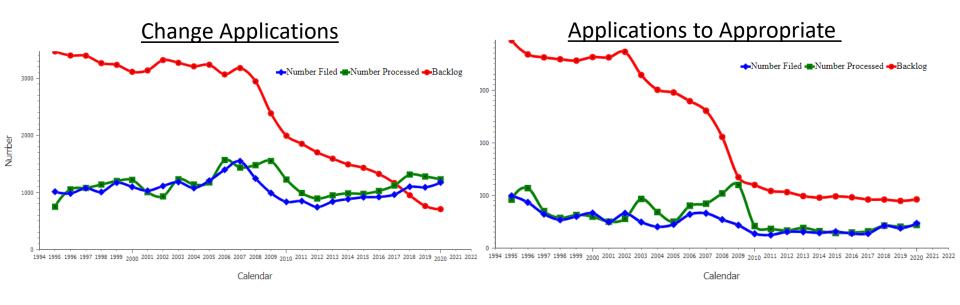
Total Commissioners 47

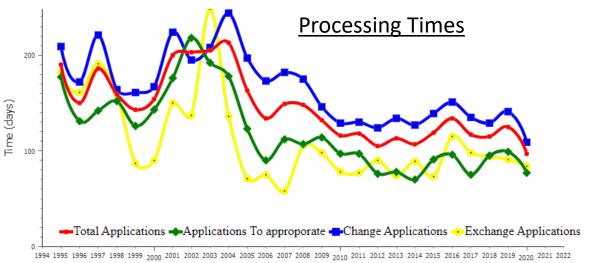
Collections \$1,798,227.31

Expenses \$1,748,217.84

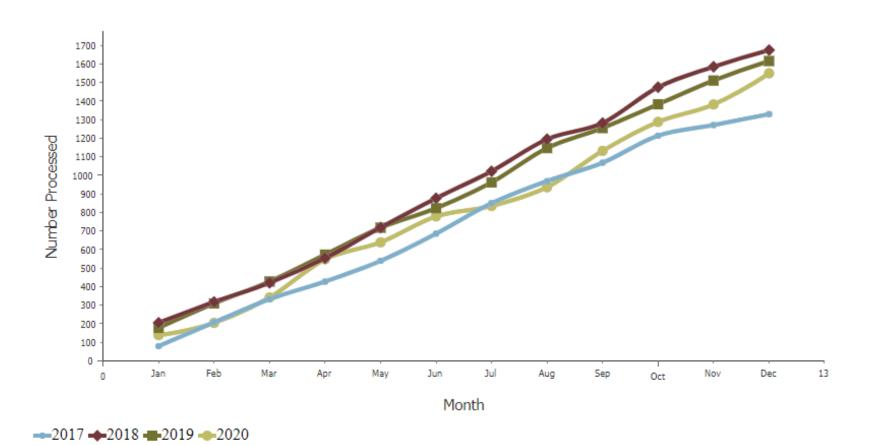
Current Bal \$1,052,542.23

## Applications, How Are We Doing?



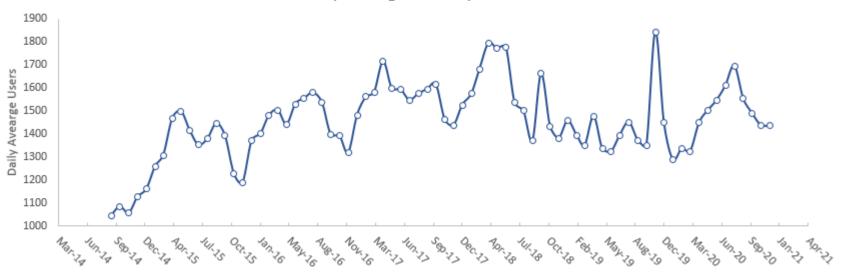


#### **Application Processing Trends**

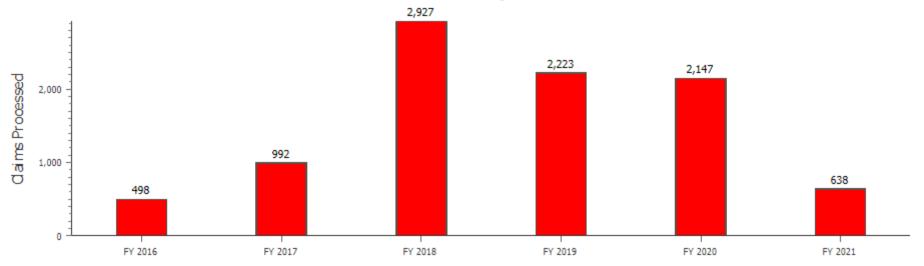


#### Other Indicators

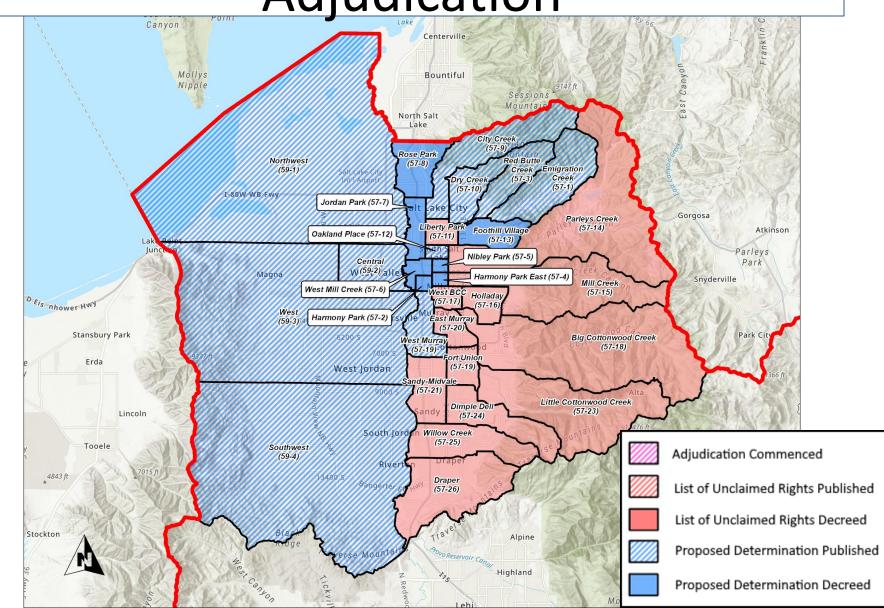
Daily Average Users by Month



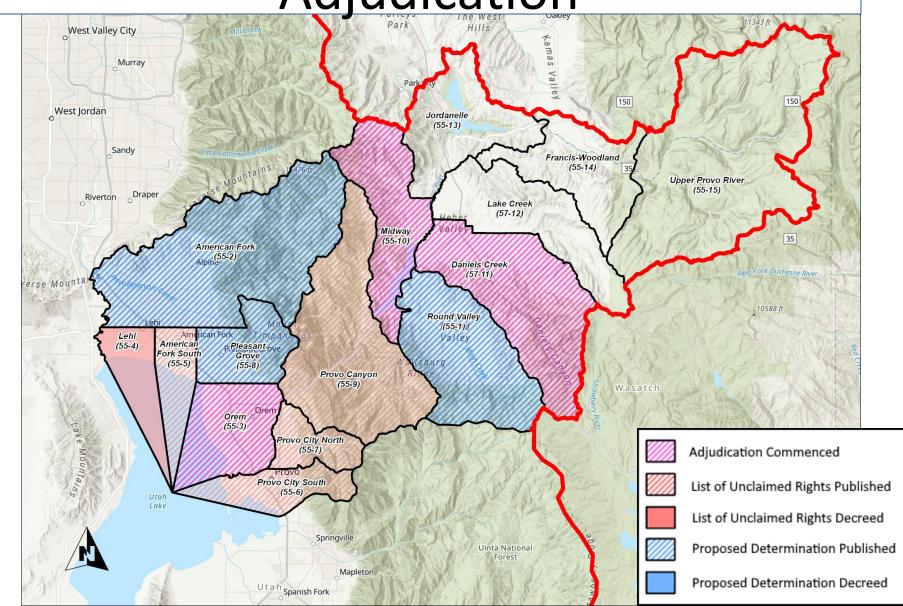




Utah Lake Jordan River Adjudication



Provo River
Adjudication

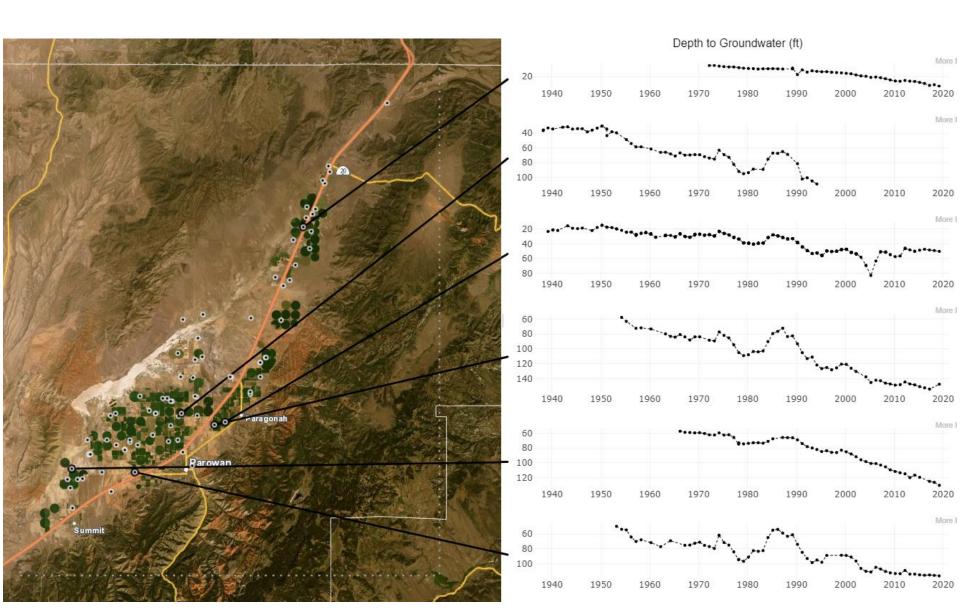


### Navajo Water Rights Settlement

- Federal reserved water right
- \$8,000,000.00
- Ratify the agreement
- Interlocutory decree
- Clean water projects for Navajo
   Nation in Utah
- Brings clarity to the water rights based on Utah's Colorado River allocation

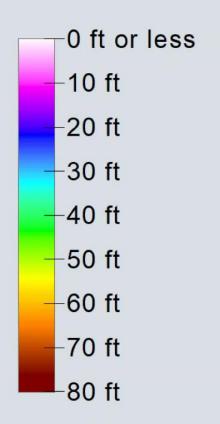


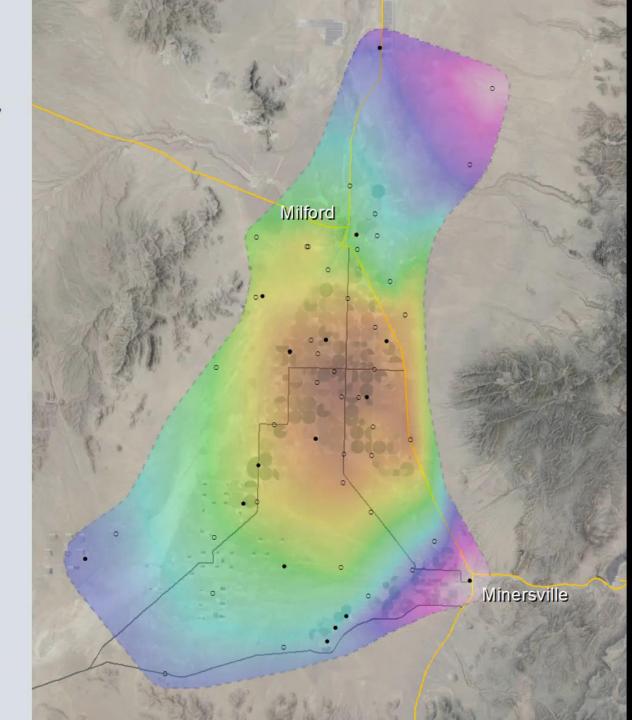
#### Parowan Groundwater Trends



# Milford Area Groundwater Declines

From 1950 to 2019





#### **Current Issues**

- Irrigation Depletion (Change / Flexibility)
- Instream / Environmental beneficial use
- Public Welfare
- Sharing a limited resource
- Ground water management
- Conjunctive management
- Breaking down internal silos and creating efficiency



